

Identification of Emerging Technologies

Source Category: Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters

Pollutant: NO_x

Description of Emerging Technology	Status	Source	Comments
Burners using staged air and flue gas recirculation (FGR), fired on a specially blended "clean" fuel oil, have achieved less than 30 ppm NO _x . Natural gas firing with low NO _x burners and FGR can typically achieve emissions in the 9 to 30 ppm range. The latest generation of low NO _x burners use lean premix in combination with FGR to reduce NO _x concentrations below 10 ppm. Recent BACT determinations include 9 ppm for boilers and process heaters with SCR and 12 ppm for low NO _x burners with FGR and SCR.	Natural gas low NO _x burners are commercially available.	<u>Sources and Control of Oxides of Nitrogen Emissions</u> , CARB, August 1997, pp 28-29, 35. Ventura County APCD, <u>Final Staff Report, Rule 74.15.1, Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters</u> , May 11, 1993	

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